

ABSTRACT OF THE DISCLOSURE

A process is provided that produces polyolefins. The process comprises mixing a first stream, which comprises at least one catalyst deactivating agent, with a second stream, which comprises at least one polyolefin, at least one catalyst, at least one diluent, and at least one monomer, to produce a third stream, which comprises at least one polyolefin, at least one deactivated catalyst, at least one diluent, and at least one monomer. By utilizing the deactivating agent, polymerization can be slowed, or substantially stopped, when downstream equipment is being repaired or process control problems are being corrected. Later, polymerization can be restarted without the use of scavengers to remove poisons from the slurry polymerization reactor, and polyolefin production can be resumed.